**WARM UP NAME: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

1. P(M) = 0.62 P(T) = 0.40 P(M ∩ T) = 0.21
   1. Create a Venn Diagram (at right)
   2. P(M U T) =
   3. P(MC) =
   4. P(MC ∩ T) =
   5. P(MC U T) =
   6. P(TC ∩ M) =
   7. P(TC U MC) =
   8. P(T|M) =
   9. Are M and T independent?
2. If P(A) = 0.51 and P(B) = 0.23 and P(A∩B) = 0.11, find the following:
   1. P(A U B) =
   2. P(B|A) =
   3. Are A and B disjoint events? Why or why not?
   4. Are A and B independent? Why or why not?

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